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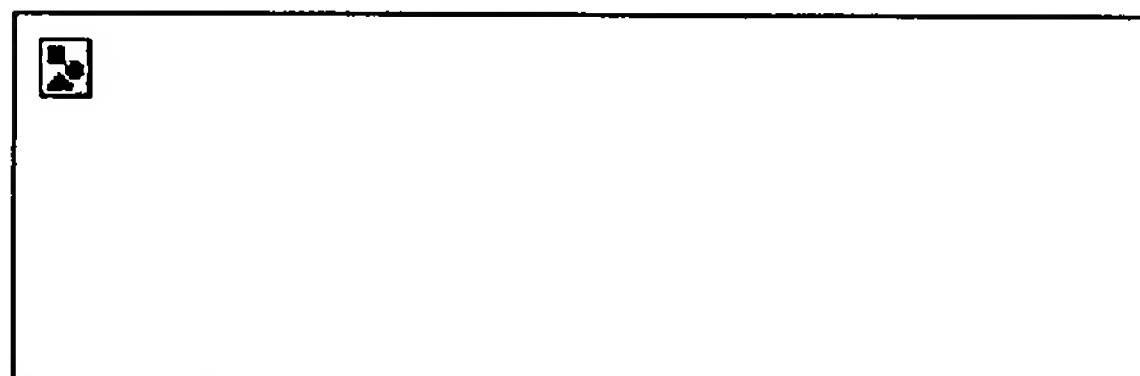
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(54) STIMULABLE PHOSPHOR AND FLUORESCENT LAMP PREPARED BY USING THE SAME



(57)Abstract:

PURPOSE: To provide stimuable phosphor improved in starting characteristics, for example, lowered in the discharge starting voltage of a fluorescent lamp by alkalifying a stimuable phosphor powder having luminescent peaks in regions of at least three wavelengths or by adhering a powder which adsorbs CO or CO₂ to the phosphor powder.

CONSTITUTION: The ends of the glass tube of a straight tube rapid starting fluorescent lamp are sealed airtightly with flare stems 2, 2 into each of which a pair of lead wires 3, 3 are penetrated airtightly. Hot cathodes, i.e., filaments 4, 4 are extended between the lead wires 3, 3. A transparent conductive film (NESA glass) 5 of e.g. tin oxide is formed on the inner surface of the bulb 1, and a stimuable phosphor coating film 6 comprising a fluorescent phosphor alkalified, for example, by washing with a 0.1% aqueous solution of Ca(OH)₂ and drying it and having luminescent peaks in regions of at least three wavelengths is formed on the surface of the conductive film. Alternatively, a powder of the fluorescent phosphor is mixed with a powder of an alkaline earth metal (e.g. MgO powder) in a ratio of 0.01-1%, and the obtained mixture is used as the coating stimuable phosphor film 6. When this treatment is done, CO and CO₂ in the bulb 1 are adsorbed.

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